Bayonne Dry Dock and Repair Company



Location: Military Ocean Terminal, Bayonne



Industrial Activity: Ship Repairing



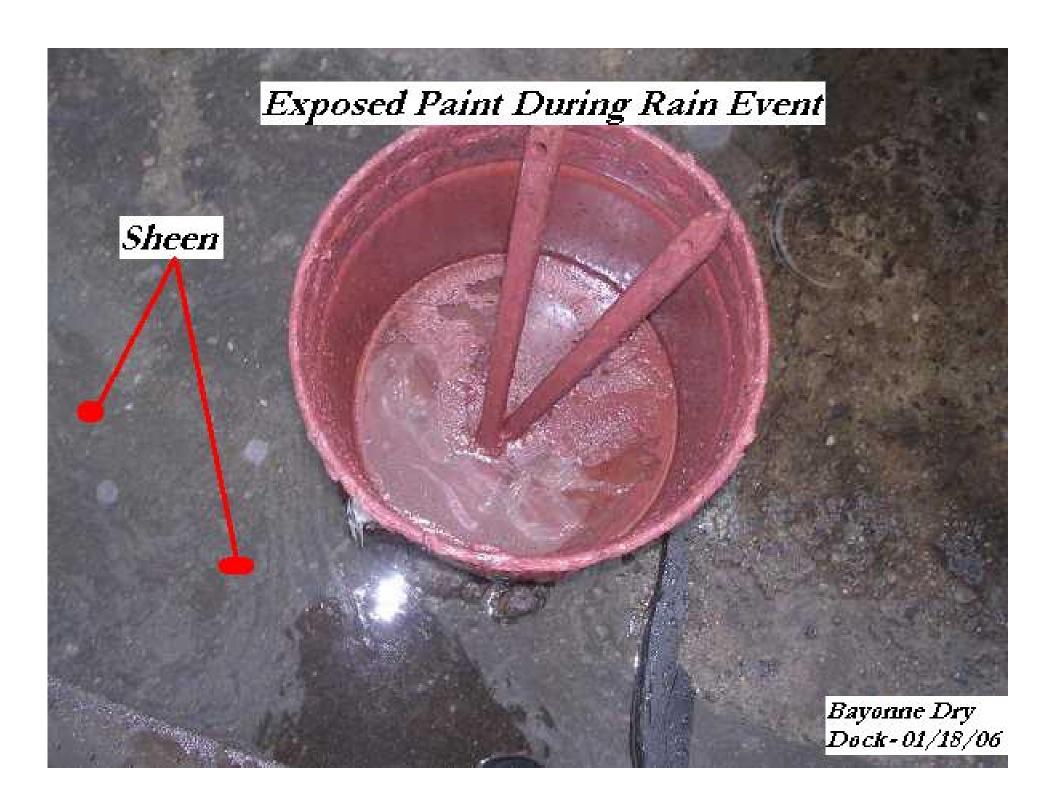
- Emergency Repairs
- Paint Removal and Repainting
- Ship Customizations / Overhauling
- Routine Maintenance

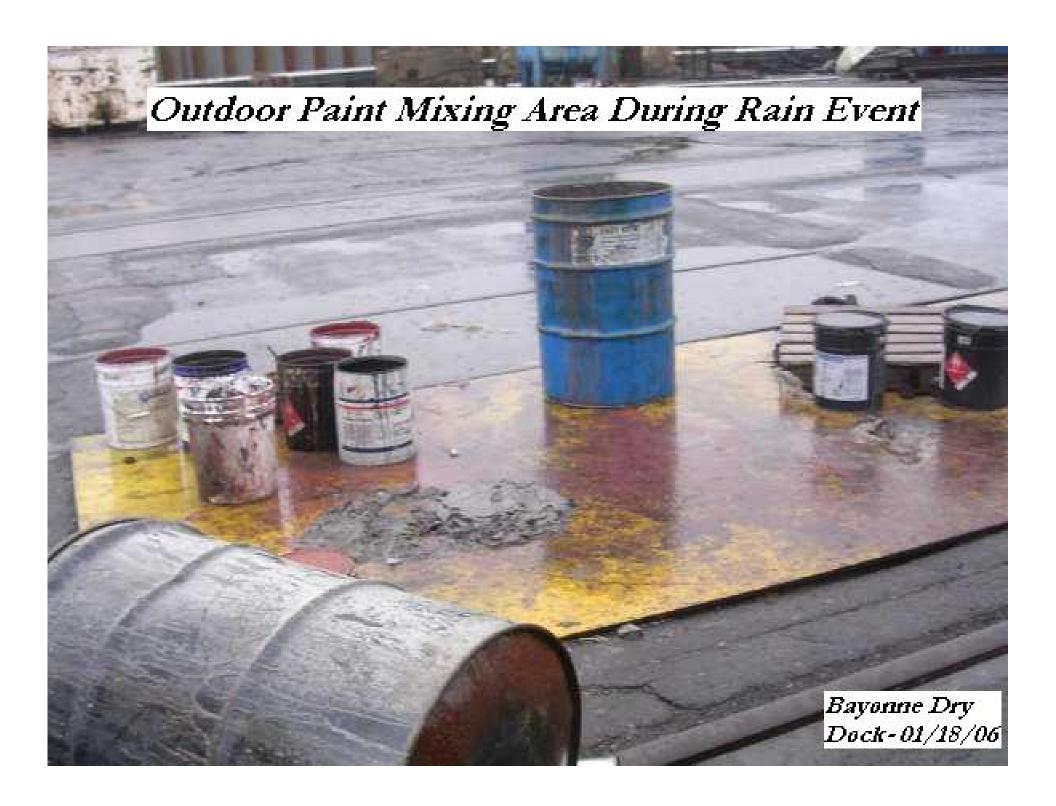
Site History

1,200 ft. x 200ft.x 50ft. Dry Dock
Constructed during WWII
Military ceased use during 1960s
Site used on and off again by
various ship companies
Site used to house x-ray lab,
transformer storage facility



Blocked Storm Drain (North Side of Dry Dock) Bayonne Dry Dock-01/18/06

















Site Layout



- DSN 001A- Main Dry Dock Sump Pump Discharge
- DSN002A-Stormwater
- DSN003A-Stormwater
- DSN004A-Stormwater

Dry Dock Main Pollutants of Concern



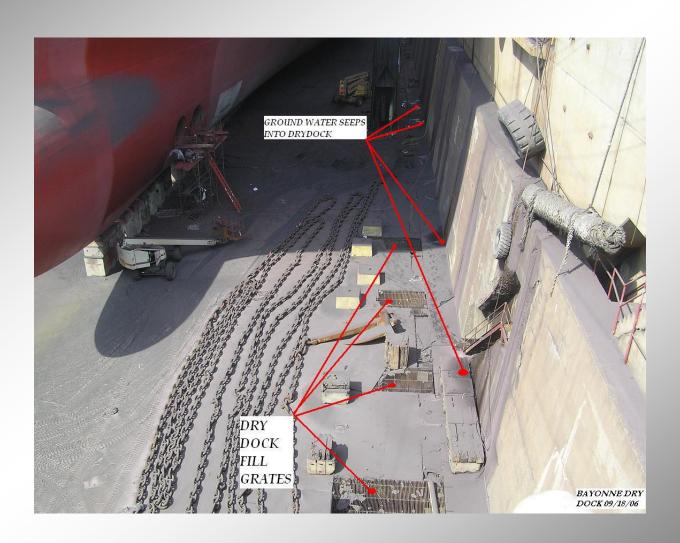
- Copper from sandblast grit
- Heavy metals released from Antifouling paintscopper, chromium, arsenic, etc.
- Volatiles and semivolatiles
- Zinc

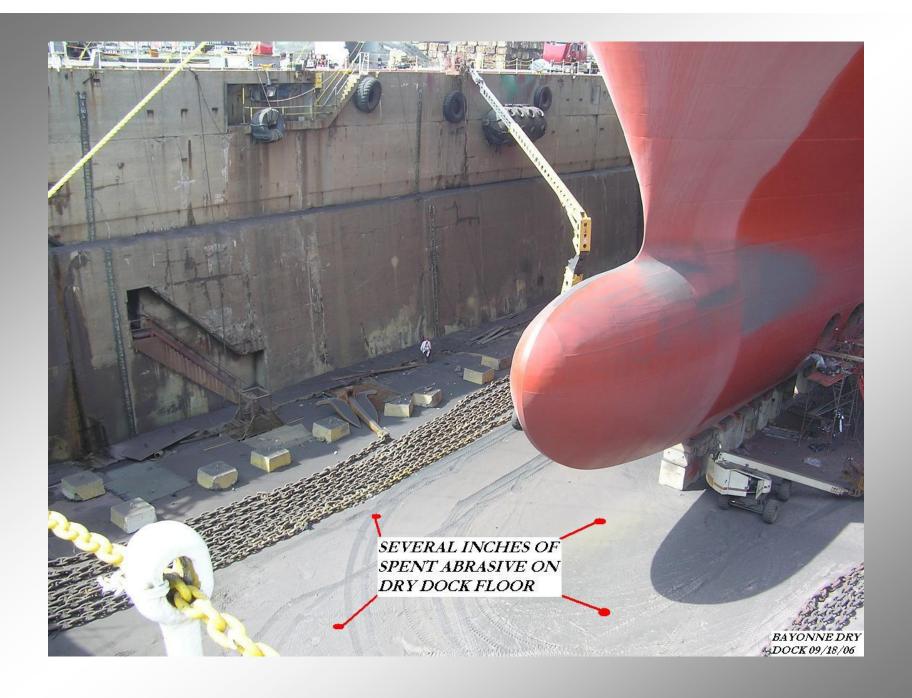
Dry Dock Exposure Issues



- Stormwater Exposure
- Caisson Door Leaks
- Groundwater Infiltration
- Storm Surges

Stormwater Exposure

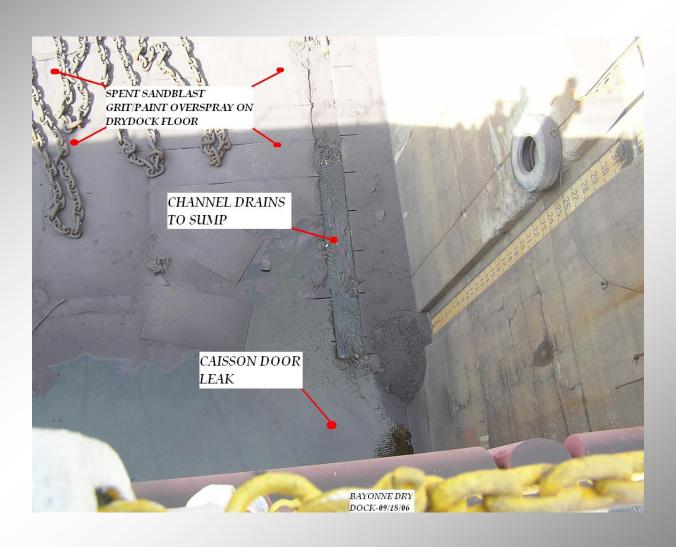






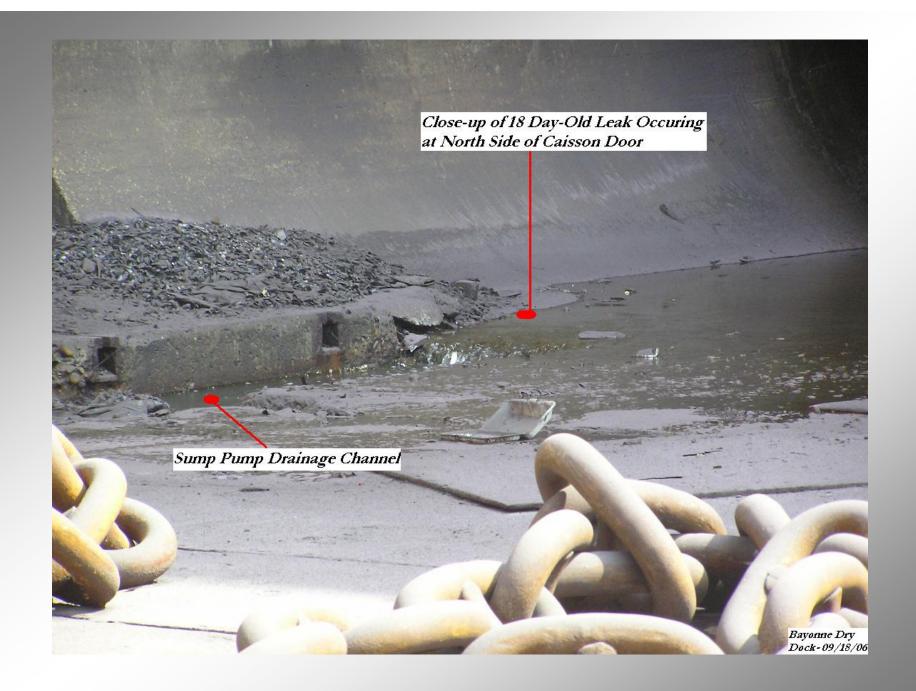


Caisson Door Leaks

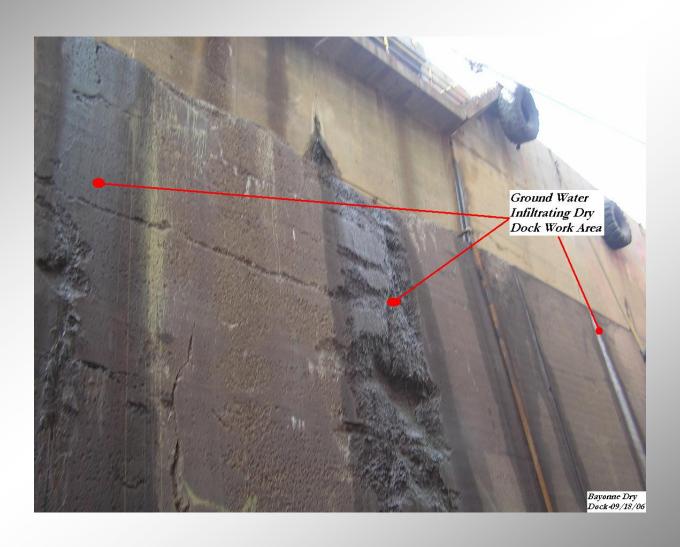


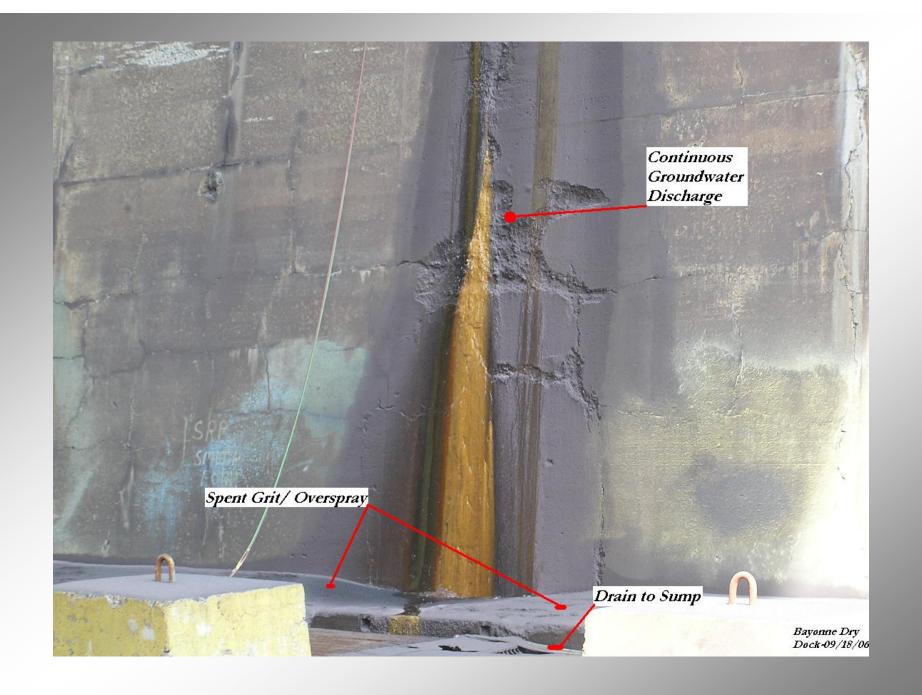


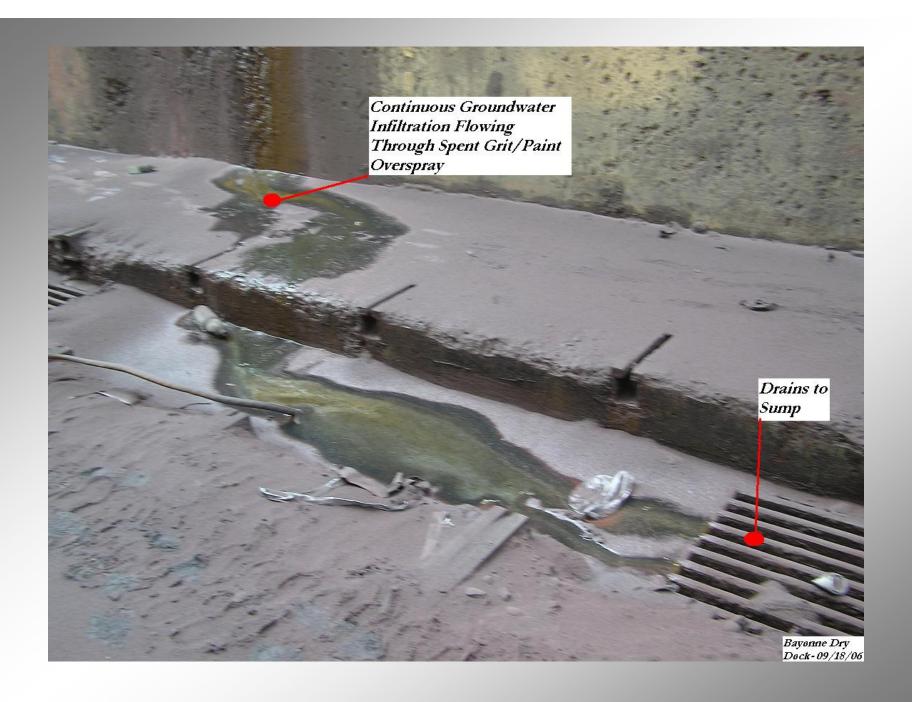


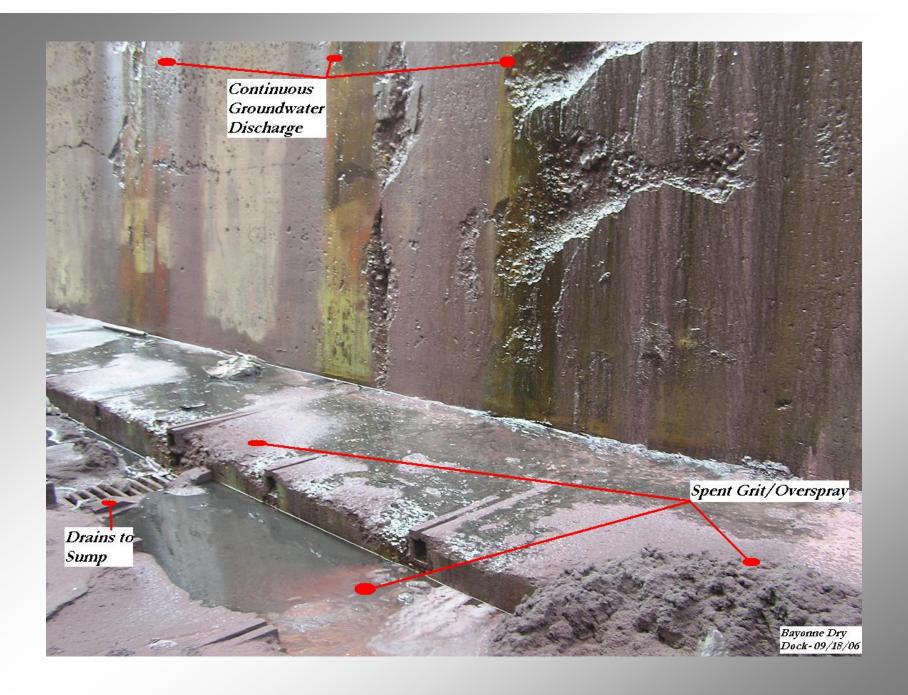


Groundwater Infiltration





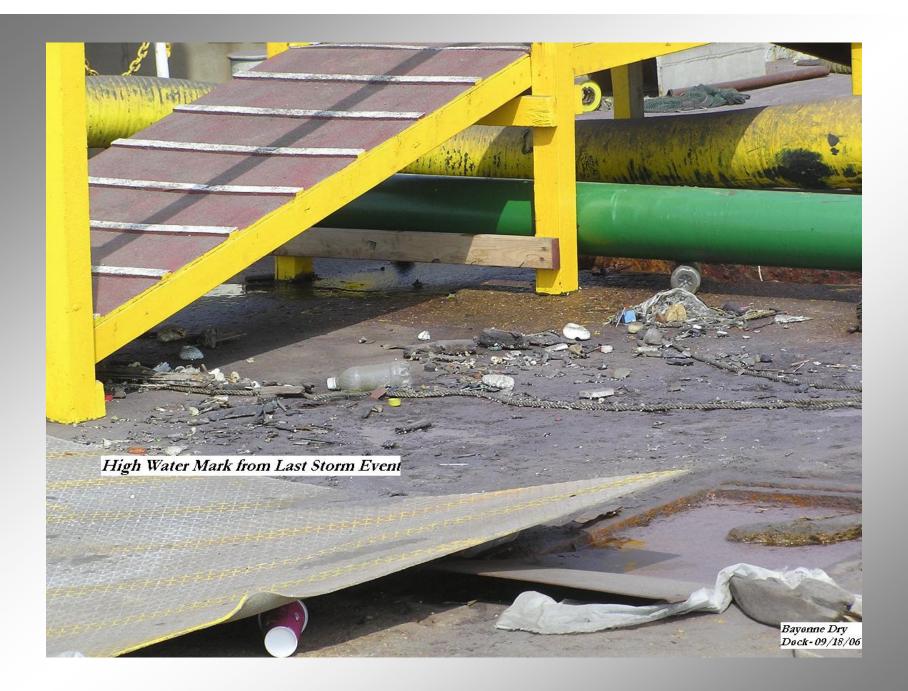




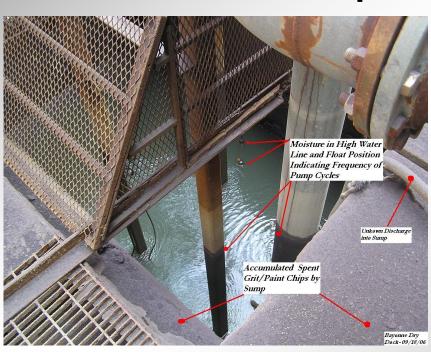
Storm Surges







DSN 001A receives all discharges occurring inside the dry dock- covered by PSP permit



- Stormwater
- Groundwater
- Seawater
- Hull Washwaters



Stormwater Issues

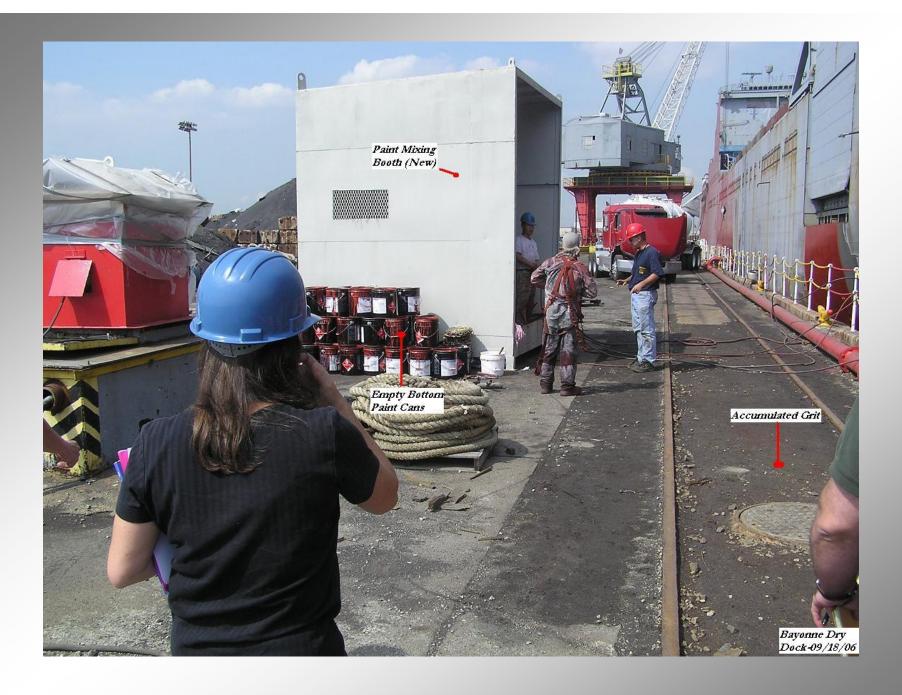
- Painting / Blasting containment
- Exposure of source materials
- Daily operations
- Housekeeping

Painting

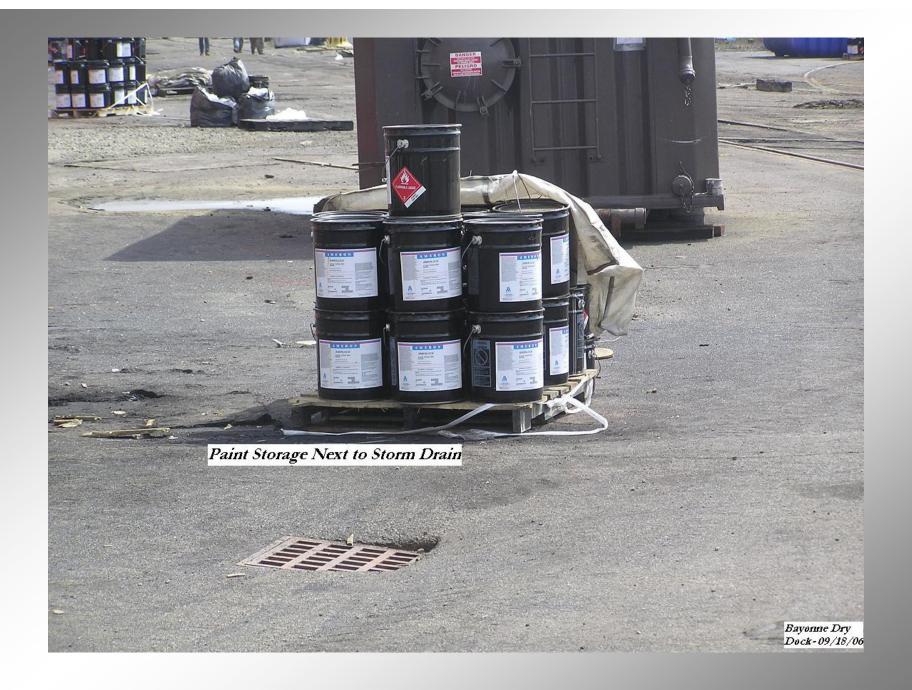
 Most marine coatings contain a variety of heavy metals and are considered hazardous waste.











Blasting



Blasting Activities

 Ships hulls and superstructures are coated w/ marine paints that protect the steel and discourage the growth of marine organisms. Hulls are periodically repainted as the original coats deteriorate and loose toxicity over time. Paint removal is usually accomplished by high pressure "sand" blasting.



Spent Grit: By-product of blasting activities

 Blasting is usually performed w/ copper grit. Blasting removes paints and primers to expose and prepare the bare metal for repainting. Spent grit contains pollutants from both the grit source and the paints removed.









Housekeeping



